CONTENTS

NUMBER 1, MARCH, 1969

Psi-Missing Re-examined.....*J. B. Rhine* 1
Shifts in EEG Alpha Rhythm as Related to Calling Patterns and ESP Run-Score Variance
Rex G. Stanford and Birgit E. Stanford 39
Further Study on a Mood Adjective Check List and ESP Run-Score Variance.....*James C. Carpenter* 48
ESP Effects in "Artists" Contrasted with "Non-Artists".....*Thelma Moss* 57
Winter Review Meeting of the Institute for Parapsychology..... 70
Letters and Comments
Correspondence (*M. R. Barrington*)..... 75

Book Reviews

Parapsychology Today (Edited by J. B. Rhine and Robert Brier).....*John R. Beloff* 77
Den osannolika verkligheten; Minnen och intryck av parapsykologi (The Nonsensory Reality; Memories and Impressions About Parapsychology) by Olle Holmberg.....*W. G. Roll* 82
"Parapsychology" by Gertrude R. Schmeidler in the *International Encyclopedia of the Social Sciences*.....*Joyce Jones* 84
Parapsychological Abstracts..... 87
The Parapsychological Association..... 93
Glossary..... 95

NUMBER 2, JUNE, 1969

Precognition of a Quantum Process.....*Helmut Schmidt* 99
Mixing-Up of Symbols in ESP Card Experiments as a Possible Cause for Psi-Missing.....*Ulrich Timm* 109
A Mass School Test of Precognition.....*Robert M. Brier* 125
Position Effects in Psi Test Results.....*J. B. Rhine* 136
Spring Review Meeting of the Institute for Parapsychology..... 158

Book Reviews

Paranormal Phenomena, Science, and Life after Death by C. J. Ducasse.....*G. Zorab* 164
Psi and Altered States of Consciousness (Proceedings of an International Conference on Hypnosis, Drugs, Dreams, and Psi). Edited by Roberto Cavanna and Montague Ullman.....*James C. Crumbaugh* 167
Books Received..... 176
Parapsychological Abstracts..... 177
Parapsychological Association..... 183
Glossary..... 184

NUMBER 3, SEPTEMBER, 1969

PK on a Bio-Electrical System.....*Robert M. Brier* 187
The Psi-Differential Effect in a Precognition Test.....*John A. Freeman* 206
PK Experiments with Same and Different Targets.....*Sara R. Feather and Louisa E. Rhine* 213
Case Study Review.....*Louisa E. Rhine* 228

Book Reviews

Extrasensory Perception (Edited by Gertrude Schmeidler) ..... *Rex G. Stanford* 267
"Lecture Forum Honoring the Memory of Chester F. Carlson" (*Proceedings of the American Society for Psychical Research*) ..... *J. B. Rhine* 272
Books Received 274
Parapsychological Abstracts 275
Glossary 279

NUMBER 4, DECEMBER, 1969

Parapsychology During the Last Quarter of a Century ..... *Robert H. Thouless* 283
Clairvoyance Tests with a Machine ..... *Helmut Schmidt* 300
A Precognition Experiment with Science Teachers ..... *John A. Freeman* 307
Relationship Between Reports of Psi Experiences and Subject Variance ..... *Joyce N. Jones and Sara R. Feather* 311
Summer Review Meeting of the Institute for Parapsychology 320

Book Review

The Great Soul Trial by John G. Fuller ..... *Martin Ebon* 329
The Parapsychological Association
The Twelfth Annual Convention 333
Call for Papers for the Thirteenth Annual Convention 366
Glossary 368

INDEX TO VOLUME XXXIII

Index of Parapsychological Abstracts

Akolkar, V. V., and Ghate, A. K. Emotional distance and ESP test scores. P. 158.
Altrocchi, John. Psychological studies. P. 365
Angoff, Allan. Phineas Quimby and mesmerism in America. P. 177.
Artley, John L., and Joines, William T. Research approaches to parapsychological phenomena in natural environments. Pp. 357-58.
Ballard, John. Personality variables and GESP. Pp. 320-21.
Banham, Katharine. Predictive value of pretest in clairvoyant photograph test. Pp. 158-59.
Bednarz, Kathleen, and Verrier, Martha. Role of the experimenter in GESP tests. P. 159.
Beloff, John. The "sweethearts" experiment. Pp. 177-78.
Beloff, John, Cowles, M., and Bate, D. A GSR–ESP experiment. Pp. 336-37.
Beloff, John, and Regan, Timothy. The Edinburgh Electronic ESP Tester. P. 178.
Bender, Hans. New developments in poltergeist research. Pp. 351-52.
Bender, Hans. Report of recent poltergeist cases. P. 321.
Bleksley, A. E. H. A further study on long-distance ESP during sleep. Pp. 321-22.
Bottrill, John. Effects of motivation on ESP. P. 70.
Bottrill, John. Frequency as related to accuracy of ESP card calls. Pp. 70-71.
Brier, Robert M. PK on a bio-electrical system. Pp. 159-60.
Brier, Robert M., and Tyminski, Walter V. Majority vote technique and psi application. P. 322.
Brier, Robert M., and Tyminski, Walter V. A preliminary attempt at assured identification. P. 160.
Burch, Joseph B. Some applications of psychophysiological technique to parapsychology. P. 348.
Burdick, Donald S., and Roll, W. G. Differential weighting of verbal and other ESP responses with different probabilities. Pp. 342-43.
Buzby, Dallas E. Further search for evidence of a pattern in the functioning of psi. P. 323.
Buzby, Dallas E. Psychological factors affecting precognition and clairvoyant variance. P. 71.
Cashen, V. M., and Ramseyer, G. C. ESP and the prediction of test items in a general psychology course. P. 160.
Casler, Lawrence. Hypnotically induced interpersonal relationships and their influence on GESP. Pp. 337-38.
Chari, C. T. K. Some disputable phenomena allied to thoughtography. P. 275.
Cleobury, F. H. The theory of selective telepathy. P. 87.
Cohen, Donna, Joines, William T., and Artley, John L. Investigations of a haunted house. P. 336.
Cox, W. E. Double hits in PK tests with electric clocks. P. 71.
Cox, W. E. Further work with a mechanized pendulum system. Pp. 160-61.
Cox, W. E. The use of pendulums in PK measurement. Pp. 352-53.
Crumbaugh, J. C. Variance declines as indicators of a stimulator–suppressor mechanism in ESP. P. 87.
Dagel, Lou T., and Puryear, Herbert B. The effect of immediate reinforcement in a two-choice GESP test. P. 339.
Dean, E. Douglas. Long distance plethysmograph telepathy with agent under water. Pp. 349-50.
Dukhan, Hamlyn. Experiments in Trinidad. Pp. 363-64.
Duval, Pierre, and Montredon, Evelyn. Precognition in mice: a confirmation. Pp. 71-72.
Ehrenwald, Jan. Human personality and the nature of psi phenomena. P. 88.
Feather, Sara. Position effects in a mass precognition test. P. 72.

Freeman, John A. Decline of variance in school precognition tests. Pp. 72-73.
Freeman, John A. Sex differences in ESP response as shown by the Freeman Picture–Figure test. Pp. 161, 354-55.
Freeman, John A. Sex differences versus age factors in school tests of ESP. Pp. 323-24.
Honorton, Charles. A combination of techniques for the separation of high- and low-scoring ESP subjects: experiments with hypnotic and waking-imagination instructions. Pp. 178-79.
Honorton, Charles. Extrasensory discrimination during sleep, an EEG study. Pp. 335-36.
Honorton, Charles. A factorial study of hypnotically induced clairvoyant dreams. P. 335.
Honorton, Charles. Relation between EEG alpha activity and ESP card-guessing performance. Pp. 346-47.
Honorton, Charles, and Carbone, Mildred. Operant training of EEG-alpha and ESP performance. Pp. 340-41.
Honorton, Charles, and Krippner, Stanley. Hypnosis and ESP performance: a review of the experimental literature. P. 275.
Honorton, Charles, and Stump, John P. A preliminary study of hypnotically-induced clairvoyant dreams. P. 179.
Johnson, Martin. Attitude and target differences in a group precognition test. Pp. 324-25.
Johnson, Martin, and Ryden, Olof. Attitudes toward ESP and scoring direction. P. 73.
Jones, Joyce N. Position effects in ESP tests with one subject. P. 73.
Jones, Joyce N., and Feather, Sara R. Relationship between reports of psi experience and subject variance. Pp. 161-62, 355-56.
Keil, H. H. J., and Pratt, J. G. The focusing effect as patterned behavior based on habitual object-word associations: a working hypothesis with supporting evidence. Pp. 344-45.
Keil, H. H. J., and Pratt, J. G. Further ESP tests with Pavel Stepanek in Charlottesville dealing with the focusing effect. P. 276.
Krippner, Stanley. Electrophysiological studies of ESP in dreams: an investigation of sex differences. Pp. 361-62.
Krippner, Stanley. Experimentally-induced telepathic effects in hypnosis and non-hypnosis groups. P. 88.
Lamacchia, Catherine, and Venzke, Jacqueline. ESP tests among gifted, normal, and retarded children. P. 162.
LeShan, Lawrence. Toward a general theory of the pananormal: a report of work in progress. Pp. 276-77.
Levy, Walter J., Jr. Motor skill and psychokinesis. P. 325.
Lilly, John C. Inner space and parapsychology. P. 349.
Littlewood, J. E. Statistical analysis in card guessing. P. 89.
Montredon, Evelyn, and Robinson, Andrew. Further precognition work with mice. Pp. 162-63.
Morris, Robert L. A survey of methodology and results in anpsi research. Pp. 343-44.
Morris, Robert L., and Cohen, Donna. A preliminary experiment on the relationships among ESP, alpha rhythm, and calling patterns. P. 341.
Moss, Thelma, and Schmeidler, Gertrude R. Quantitative investigation of a "haunted house" with sensitives and a control group. P. 89.
Murphy, Gardner. The discovery of gifted sensitives. P. 179.
Nash, Carroll B. Comparison of ESP run-score averages of groups liked and disliked by the experimenter. Pp. 89-90.
Nash, Carroll B. Cutaneous perception of color. Pp. 179-80.
Nash, Carroll B. Cutaneous perception of color with a head box. Pp. 339-40.
Nash, Catherine S., and Nash, Carroll B. A test of the relationship between ESP, Gestalt completion, and man drawing. P. 338.
Nielsen, Winnifred. A further study in precognition and mood. P. 326.
Osis, Karlis, and Bokert, Edwin. Changed states of consciousness and ESP. Pp. 360-61.
Osis, Karlis, and Turner, Malcolm E., Jr. Distance and ESP: a transcontinental experiment. Pp. 90-91.

Otani, Soji. Call frequency and anxiety in a clairvoyant test. Pp. 326-27.
Otani, Soji. An ESP experiment with parachute troops. P. 163.
Prasad, Jamuna, and Stevenson, Ian. Preliminary investigations of the correspondences in personality traits of the present and previous personalities in cases of the reincarnation type in India. Pp. 333-34.
Prasad, Jamuna, and Stevenson, Ian. A survey of spontaneous psychical experiences in school children of Uttar Pradesh, India. P. 91.
Pratt, J. G., and Jacobson, N. Prediction of ESP performance on selected focusing effect targets. P. 180.
Pratt, J. G., Jacobson, N., Blom, J. G., and Meinsura, G. L. A transitional period of research on the focusing effect: from confirmation toward explanation. Pp. 180-81.
Pratt, J. G., and Stanford, Rex G. Extrasensory elicitation of sensorially acquired response patterns? Pp. 345-46.
Proceedings of the Japanese Society for Parapsychology. P. 91.
Rhine, J. B. Position effects in psi test results: a review. P. 74.
Rhine, J. B. Possible PK on static objects. Pp. 73-74.
Rhine, Louisa E. Suggestions on the nature of psi-yielded by a study of cases. P. 327.
Roll, W. G., and Burdick, D. S. Statistical models for the assessment of verbal and other ESP responses. P. 277.
Roll, W. G., and Stump, John P. The Olive Hill poltergeist. P. 359.
Sanjar, Mansour. A study of coincident autonomic activity in closely related persons. P. 181.
Schmeidler, Gertrude R. High ESP scores following a session with a Swami. P. 334.
Schmeidler, Gertrude R., and LeShan, Lawrence. Body image and ESP means and variances. Pp. 338-39.
Schmeidler, Gertrude R., and Lewis, Laurence. A search for feedback in ESP: Part III. The preferential effect and the impatience effect. Pp. 181-82.
Schmidt, Helmut. Clairvoyance tests with an electrically operated machine. P. 74.
Schmidt, Helmut. Favorable working conditions in precognition tests. Pp. 327-28.
Stanford, Rex G. "Associative activation of the unconscious" and "visualization" as methods for influencing the PK target. Pp. 353-54.
Stanford, Rex G., and Lovin, Carol Ann. The EEG alpha rhythm and ESP performance: a follow-up study. Pp. 347-48.
Steelman, Julie, and Schmeidler, Gertrude R. Another example of an error in target selection which gave significant relations with ESP calls. Pp. 334-35.
Stevenson, Ian. The analysis of a mediumistic session by a new method. P. 92.
Stevenson, Ian. The belief in reincarnation and related cases among the Eskimos of Alaska. Pp. 356-57.
Stump, John P., Roll, W. G., and Roll, Muriel. Experiments in Durham. P. 364.
Tart, Charles T. A further psychophysiological study of out-of-the-body experiences in a gifted subject. Pp. 350-51.
Timm, Ulrich. *ASW-experimente mit studentengruppen* (ESP experiments with groups of students). P. 278.
Timm, Ulrich. *Das «round-table-experiments»—ein neuer versuchsplan für ASW-gruppenversuche* (The "round-table experiment"—a new design for ESP group experiments). P. 277.
Timm, Ulrich. The statistical analysis of hit sequences in ESP experiments. P. 342.
Tromp, Solco W. Review of the possible physiological causes of dowsing. P. 182.
Ullman, Montague, Krippner, Stanley, and Honorton, Charles. Electrophysiological studies of ESP in dreams: an investigation into the nature of psi-processing in dreams. Pp. 362-63.
Van de Castle, R. L. An investigation of ESP among the Cuna Indians of Panama. P. 333.

Index of Topics and Names

AARONSON, BERNARD S., 169
Affect, 222; *see also* Mood; Motivation
  defined, 221
  positive vs. negative, 221
Agent, role of in spontaneous psi phenomena, 237, 238, 248-51
AKOLKAR, V. V., 158
Alpha rhythm, 346-47, 347-48
  operant training of and ESP performance, 340-41
  related to calling patterns and ESP run-score variance (Stanford and Stanford), 39-47
Altered states of consciousness; *see under* Neurophysiological concepts
ALTROCCHI, JOHN, 365
ANGOFF, ALLAN, 168, 177
Animals, ESP in 343-44
  experimental work on
    cats, 31, 152
    mice, 31-32, 71-72, 152, 162-63, 198-99
  moral objection to use of, 75-76
Anpsi; *see* Animals, ESP in
Apparitions; *see* Postmortem survival
ARTLEY, JOHN L., 336, 357-58
Astral projection, 349, 350-51
Attitude toward ESP, 57-59, 63-64, 301-10, 312, 326; *see also* Mood, Motivation, Sheep–goat comparison
  as related to scoring direction, 73, 324-25
Autonomic activity, coincident in closely related persons, 181

BACHRACH, ARTHUR J., 330
BACKSTER, CLEVE, 189
BALLARD, JOHN, 320-21
BANHAM, KATHARINE, 158-59
BARRETT, SIR WILLIAM FLETCHER, 284
BARRINGTON, M. R., 76
BARRY, JEAN, 80
BATE, D., 336-37
BEDNARZ, KATHLEEN, 159
BELOFF, JOHN R., 81, 175, 177-78, 320, 336-37, 349
BENDER, HANS, 320, 321, 333, 351-52, 365
BEVAN, J. M., 13
BHADRA, B. H., 312
Bidirectionality of psi, 110
Binomial method; *see under* Statistical methods
BLEKSLEY, A. E. H., 321-22
"Blocking" effect, 109, 111, 122-23, 151
  in spontaneous psi phenomena, 16, 17-18, 30, 243
BLOM, J. G., 180-81
BOKERT, EDWIN, 360-61
Book Reviews:
  Den Osannolika Verkligheten; Minnen Och Intryck Av Parapsykologi (*The Nonsensory Reality*; *Memories and Impressions about Parapsychology*) by Olle Holmberg, 82-84
  Extrasensory Perception edited by Gertrude Schmeidler, 267-72
  Great Soul Trial, The, by John G. Fuller, 329-32
  "Lecture Forum Honoring the Memory of Chester F. Carlson," *Proceedings of the American Society for Psychical Research*, 272-73
  Paranormal Phenomena, Science, and Life after Death by C. J. Ducasse, 164-66
  "Parapsychology" by Gertrude R. Schmeidler in the *International Encyclopedia of the Social Sciences*, 84-86
  Parapsychology Today edited by J. B. Rhine and Robert Brier, 77-81
  Psi and Altered States of Consciousness edited by Roberto Cavanna and Montague Ullman, 167-76
BOTTRILL, JOHN, 70-71
BRIER, ROBERT, 80, 159-60, 322
  a mass school test of precognition, 125-35
  Parapsychology Today (review), 77-81
  PK on a bio-electrical system, 187-205
BURCH, JOSEPH B., 348
BURDICK, D. S., 277, 342-43
BUZBY, DALLAS E., 71, 78, 323

CADORET, R., 15-16, 39-40, 111, 114, 117, 270, 347
"Call cases," 236
Call frequency, 113, 118, 326-27
  related to accuracy, 70-71
Call patterns
  acquired sensorially and transferred by ESP, 345-46
  related to shifts in alpha rhythm, 39-47, 341
Cancellation effect, 26, 87; *see also* Position effects
CARBONE, MILDRED, 340-41
CARINGTON, WHATLEY, 293, 297
CARLSON, CHESTER F., 272-73
CARLSON, DORRIS, 273
CARPENTER, JAMES C., 33, 80, 221
  further study on a mood adjective check list and ESP run-score variance, 48-56

Case studies; *see* Spontaneous psi phenomena
CASHEN, V. M., 160
CASLER, LAWRENCE, 337-38
Cats, ESP in; *see under* Animals
CAVANNA, ROBERTO
Psi and Altered States of Consciousness (review), 167-76
Chance missing, 31-32
Chari, C. T. K., 275
Children as subjects, 70, 72, 162
in a mass school test of precognition (Brier), 125-35
in survey of spontaneous psychical experiences, 91
Chi-square method; *see under* Statistical methods
Chronological decline; *see* Decline effect
CLEOBURY, F. H., 87
Cognitive error, 123
COHEN, DONNA, 336, 341
Compressive drawings; *see under* Personality variables
Consistent missing, 15-17
in normal runs, 121
possible cause for psi-missing (Timm), 109-24
Contradictions in psi test results, causes of, 292
Control of psi, 136; *see also* Methodology
training possibilities for, 154
Conviction; *see under* Spontaneous psi phenomena
COOVER, J. E., 20
Correspondence ESP tests, 125-35, 317-18
Counterhypotheses
to high ESP scores, 108, 288
to run-score variance, 219
to survival, 87
Courtesy series, use of in PK tests, 196
COWLES, M., 336-37
COX, W. E., 10, 11, 25, 71, 160-61, 188, 352-53
Creativity; *see under* Personality variables
Critical ratio of the difference (CR_d); *see under* Statistical methods
Criticisms of parapsychology, 268, 288
CROISET, G., 164-65
CROOKES, SIR WILLIAM, 284
CRUMBAUGH, JAMES C., 87, 176, 268
Cutaneous perception of color, 179-80, 339-40

DAGEL, LOU T., 32, 339
DARWIN, CHARLES, 290
DEAN, DOUGLAS, 349-50
Decline effect, 3, 4, 7, 136, 137, 285, 292, 293; *see also* Position effects
Decline of variance, 48, 52-54, 72-73, 87
Den Osannolika Verkligheten; Minnen Och Intryck Av Parapsykologi (The Nonsensory Reality; Memories and Impressions about Parapsychology) by Olle Holmberg (review), 82-84
Dice bias as counterhypothesis to variance of PK run scores, 219
Differences between spontaneous psi experiences and laboratory experiments, 251-52
Differential response
related to two-aspect test conditions, 9-11
Direction of scoring, prediction of
by a combination of techniques, 178-79
by first trial in series, 197-98, 201
by sampling technique, 160
by selected focusing effect targets, 180
by use of pretest, 158-59
Displacement, 8, 15, 111, 123, 293-94, 297
in verbal free associations in GESP tests, 66-67, 68
Distance and ESP, 90-91, 321-22, 349-50
Dowsers (dowsing), 12
physiological causes, 175, 182
Draw-A-Man test; *see under* Personality variables, tests of
Dream studies; *see also* Neurophysiolgoical concepts; Spontaneous psi phenomena
in a clinical setting, 172-74, 174-75, 335-36
an investigation of sex differences in, 361-62
nature of psi processing in, 362-63
Dual aspect test conditions
as related to psi-missing, 1, 6, 9-11, 24-25
DUCASSE, C. J.
Paranormal Phenomena, Science, and Life after Death (review), 164-66
DUKHAN, HAMLYN, 363-64
DUVAL, PIERRE, 31-32, 71-72, 152

EBON, MARTIN, 332
EDDY, MARY BAKER, 168, 177
Edinburgh Electronic ESP tester; *see under* Electrical and electronic devices in psi research
EEG (electroencephalogram), 340-41, 346-47, 347-48
in astral projection studies, 350-51
in dream studies, 335-36, 361-62
in variance investigations, 39-47
EHRENWALD, JAN, 88
EINSTEIN, ALBERT, 290
Electric shock in ESP tests
with mice, 71-72, 75, 162-63, 199

Electrical and electronic devices in psi research, 74, 99, 101-03, 300-02, 325
automatic dice machine, 215
Edinburgh Electronic ESP tester, 177-78
Electroencephalogram; *see* EEG
Embedded Figures Test; *see under* Personality variables, tests of
ESP, theories of; *see* Theories of Psi
ESTABROOKS, G. H., 3, 20, 138
Evolution, effect of on psi, 293
Expansive drawings; *see under* Personality variables
Experimenter, effect of in ESP tests, 159
Extra-Sensory Perception, 284
Extrasensory Perception edited by Gertrude Schmeidler (review), 267-72
Extra-Sensory Perception after Sixty Years, 287

FAHLER, J., 269
Fantasy production in verbal free associations, 68-69
Favorable test conditions, 304, 327-28
Feather, Sara R., 72, 150, 161-62, 355-56
PK experiments with same and different targets, 213-27
relationship between reports of psi experiences and subject variance, 311-19
Feedback, 100, 178, 181-82, 339
method of preventing psi-missing, 33
in training of alpha rhythm, 340-41
Focusing effect, 297
association habits relating to, 276, 344-45
object, 180-81, 276
Forms of psi in consciousness, 231-35
FORWALD, H., 153, 188
FOSTER, ESTHER B., 10, 31, 152
Free association in ESP tests, 57, 62, 68-69
FREEMAN, JOHN, 9, 10, 11, 72-73, 127, 128, 134, 161, 323-24, 354-55
precognition experiment with science teachers, 301-10
psi-differential effect in a precognition test, 206-11
Freeman Word Reaction test; *see under* Personality variables, tests of
FRY, THORNTON, 4
FULLER, JOHN G.
The Great Soul Trial (review), 329-32
Functioning of psi-missing; *see under* Psi-missing

Galvanic skin response; *see* GSR
GARRETT, MRS. EILEEN, 176, 276
Gestalt Completion test; *see under* Personality variables, tests of
GHATE, A. K., 158
GIBSON, LOTTIE, 12
GRAD, BERNARD, 80, 189
The Great Soul Trial by John G. Fuller (review), 329-32
GREENWOOD, J. A., 22, 139
GROSS, HENRY, 12
GSR (galvanic skin response), use of in psi tests, 336-37
GURNEY, E., 81, 229, 284

Habit formation
in ESP tests with animals, 31
HALLETT, S. J., 10
Hallucinations, 174; *see also* Spontaneous psi phenomena
HANSEL, C. E. M., 268, 288
HARRIBANCE, LALSINGH, 363-65
HARRIS, JOSEPH, 329
Haunted houses, 89, 336; *see also* PK
Healers, 177
HEINEMAN, FRED, 330
Help-hinder experiments; *see under* PK
HERNÁNDEZ-PEÓN, RAÚL, 167, 174-75
Hidden Channels of the Mind, 286
High-scoring subjects, 105-07, 302-04
psi-missing produced by, 2, 3
HOCKING, WILLIAM, 331
HOLMBERG, OLLE
Den Osannolika Verkligheten; Minnen Och Intryck Av Parapsykologi (*The Nonsensory Reality; Memories and Impressions about Parapsychology* (review), 82-84
HONORTON, C. H., 55, 78, 178-79, 275, 335-36, 340-41, 346-47, 362-63
HUBY, P. M., 270
HUMPHREY, BETTY M., 8, 13, 15, 22, 54-55, 168, 213-14, 220, 226
Hypnosis, 88, 167, 168-70, 173, 174-75, 177, 275, 337-38
in dream studies, 335
by telepathy, 287

Immediate knowledge of success (IKS), 146, 149-50
Impatience effect, 181-82
Incline effect, 7; *see also* Position effects
Intelligence and ESP
gifted, normal and retarded children, 162
Intervention; *see* Precognition and intervention

JACOBSON, N., 180-81
JAMES, WILLIAM, 284
Japanese Society for Parapsychology, 91
JEPHSON, INA, 137
JOHNSON, DOUGLAS, 331, 336
JOHNSON, MARTIN, 73, 324-25
JOINES, WILLIAM T., 336, 357-58, 363
JONES, JOYCE N., 73, 86, 87-92, 150, 161-62, 275-78, 355-56
relationship between reports of psi experiences and subject variance, 311-19

KANAZAWA, M., 91
KEIL, H. H. J., 276, 344-45
KIDD, JAMES, 329, 330, 331
KOIDE, H., 91
KRIPPNER, STANLEY, 88, 173-74, 275, 344, 361-62, 362-63
KUHN, T. S., 289-91, 298

LAMACCHIA, CATHERINE, 162
"Lecture Forum Honoring the Memory of Chester F. Carlson," *Proceedings of the American Society for Psychical Research* (review), 272-73
LESHAN, LAWRENCE, 171-72, 276-77, 338-39
LEVINE, JEROME, 170
LEVY, WALTER J., JR., 325
LEWIS, LAURENCE, 181-82
L'HUILLIER, JEAN-ROBERT, 175
LILLY, JOHN C., 349
LITTLEWOOD, J. E., 89
LODGE, SIR OLIVER, 284
LOVIN, CAROL ANN, 347-48
LSD; *see* Psychedelics
LUDWIG, ARNOLD M., 170

Majority vote technique; *see under* Methodology
Mass tests of ESP, 125-35
MCCONNELL, ROBERT, 294
MCMAHAN, ELIZABETH A., 12-13, 25, 237
Mechanical behavior
  in mice, 72, 162, 199
Meditation, and ESP scoring, 334
Medium(s) (ship), 87, 89, 92, 276, 331, 336
  as subjects, 105-07, 179, 303, 363-64
  psychological studies of, 365
MEINSURA, G. L., 180-81
Mental state and ESP, 40, 303
Mesmerism; *see* Hypnosis
Methods of response in ESP tests
  interruption between segments, 141
  writing vs. calling, 140-41
Methodology, 342-44
  assessment of verbal responses, 92
  differential weighting for responses with different probabilities, 342-43
  for group testing, 277, 278
  majority vote technique, 322
  pertaining to thoughtography, 275
  for psi application, 322
  psychophysiological techniques, 348
  survey of in anpsi research, 343-44
  for testing PK effects on living tissue, 187-205
Mice, ESP in; *see under* Animals
Mind Over Matter: The Story of PK, 70
Mixing up of symbols; *see* Consistent missing
MIZUKAMI, T., 91

MONTREDON, EVELYN, 31-32, 71-72, 152, 162-63
Mood, 326; *see also* Affect
  determined by adjective check list, 48-51, 220-21
  effect of on ESP run-score variance, 48-56, 221
  effect of on PK run-score variance, 213
  extreme vs. moderate, 221
MORRIS, ROBERT, 78-79, 341, 343-44
MOSS, THELMA, 89
  ESP effects in "artists" contrasted with "non-artists," 57-69
Motivation; *see also* Mood
  effects of on ESP, 70
  in PK help-hinder tests, 214
  in psi-missing, 110
MURPHY, GARDNER, 179, 273, 346
MYERS, F. W. H., 81, 229, 284
MYERS, ROBERT L., 329, 331

NASH, CARROLL B., 16, 89-90, 111, 179-80, 338, 339-40, 354
NASH, CATHERINE S., 338
Negative motivation
  as related to psi-missing, 3, 109, 123
Neurophysiological concepts, 171-75; *see also* Dreams
  altered states of consciousness, 171-72, 334, 360-63
  yoga, 167, 172
NEWTON, SIR ISAAC, 290
NICOL, J. FRASER, 168
NIELSEN, WINNIFRED, 220-221, 326
NOMINE, YVONNE, 92

ONDA, A., 91
Optional stopping, 100, 105, 304
OSADA, K., 91
OSIS, KARLIS, 8, 31, 90-91, 152, 269, 273, 352, 360-61
OSMOND, HUMPHRY, 171
OTANI, SOJI, 91, 163, 326-27
Out-of-the-body experiences; *see* Astral projection

PAHNKE, WALTER, 171
"Pain cases"; *see* Psychosomatic psi
Parachute troops as subjects, 163, 326-27
Paranormal Phenomena, Science, and Life after Death by C. J. Ducasse (review), 164-66
Parapsychological Association
  announcements, 93, 183, 366-67
  twelfth annual convention, 333-65
"Parapsychology" by Gertrude R. Schmeidler in the *International Encyclopedia of the Social Sciences* (review), 84-86
Parapsychology
  during the last quarter of a century (Thouless), 283-99

and inner space, 349
replicability in tests, 268, 271, 285
Parapsychology Today edited by J. B. Rhine and Robert Brier (review), 77-81
PARKER, ADRIAN, 6-7
Patterns in ESP test results, 344-46
Pearce-Pratt experiment, 268
Percipient, role of in spontaneous psi phenomena, 237, 238, 248-51
Personality variables, as related to ESP scoring, 23, 58, 320-21
achievement oriented vs. non-achievement oriented, 334-35
creativity, 58
expansive vs. compressive, 13-14
global vs. analytic perceivers, 71
high anxiety vs. low anxiety, 163, 326-27
introvert vs. extravert, 326
liker vs. disliker, 206-11
Tests of
Cattell Anxiety Scale, 326-27
Draw-A-Man test, 71, 323, 338
Embedded Figures Test, 71
Freeman Word Reaction test, 206, 207, 212
Gestalt Completion test, 338
Rorschach test, 338-39, 365
Taylor Manifest Anxiety scale, 208
Phantasms of the Living, 81, 229, 286
Physiological studies and ESP, 39-47, 346-51, 361-62; *see also* EEG; GSR; Plethysmograph
effects of stimulants, 270
PIPER, MRS. LEONORE, 179
PK (psychokinesis)
effect of on animate objects
germination and growth of seedlings, 189
paramecia, 189
plant tissue, 159-60, 187-205
effect of on inanimate objects
clocks machine, 11, 188
cube-placement machine, 71
dice, 188-89, 213-27
pendulum system, 160-61, 352-53
static objects, 73-74
water-drop machine, 71
in "help-hinder" conditions, 213-27
in light and dark conditions, 12-13
measurement of forces involved, 188
methods for testing, 352-54
mood study, 220-27
in placement tests, 10, 188-89
position effects in tests of; *see under* Position effects
related to motor skill, 325
with same and different targets (Feather and Rhine), 213-20
spontaneous occurrences of
hauntings, 230, 357-58
physical effects, 248-51
poltergeist, 230, 321, 351-52, 357-58, 359
in two-aspect target conditions, 10
Plethysmograph, use of in psi tests, 349-50
PODMORE, F., 229
Poltergeist; *see under* PK
Polygraph, use of
in ESP experiments, 41-43, 350
in PK experiments, 159-60, 187-205
Position effects, 72, 73, 74, 135-57; *see also* Decline effect, Incline effect, U-curve
historical sketch of, 137-40
identified with record sheet structure, 136, 138-42, 144-46
internal elements in, 146-48
parallel in segments and run, 142-43
in PK test results, 143-44
related to psi-missing, 1, 3, 6-9, 137, 148-51
related to variance, 52-54
and scoring rate, 141-42, 147
uses of, 151-56
Postmortem survival, 329; *see also* Spontaneous psi phenomena
bearing of hallucination on, 257-64
criterion for evaluation, 264-65
Practice of gambling
in psi application, 322
similarity in psi testing, 19-20
PRASAD, JAMUNA, 91, 333-34
Pratt-Birge method, 277
PRATT, J. G., 15-16, 111, 114, 117, 153, 180-81, 209, 268, 276, 294, 297, 330, 344-45, 345-46
Precognition and intervention, 255-57
Preferential effect, 9, 181-82
Pretest, use of in clairvoyance tests, 158-59
PRICE, G. R., 288
PRICE, H. H., 331
Primary process material in free associations, 65-66
Primary responses in ESP tests; *see* Response bias
Proxy sittings, 92
Psi
and human personality, 88
nature of, as suggested by case studies, 327
theories of; *see* Theories of psi
Psi application; *see under* Methodology
Psi and Altered States of Consciousness edited by Roberto Cavanna and Montague Ullman (review), 167-76
Psi differential effect
conditions producing, 206-07
definition of, 206
method of obtaining, 9, 24-25
in precognition tests (Freeman), 206-11
Psi Experience Questionnaire, 161-62, 312-13, 356

Psi-missing, 285, 292, 361
associated with attitude, 110
associated with blocking effect, 111, 246-48
associated with position effects, 6-9
associated with stress, 11-14, 110
associated with two-aspect test, 9-11, 110
functioning of, 110-11
general indications of, 28-35
measurement of, 18-28
motivation in, 110
production of, 14-18, 109-24
re-examined (Rhine), 1-38
theory of, 122-23
Psychedelics; *see under* Psychopharmacology
"Psychics"; *see* Mediums
Psychic photography; *see* Thoughtography
Psychical research, 283-86
Psychokinesis; *see* PK
Psychological processes of psi; *see* Spontaneous psi phenomena
Psychological variables affecting ESP, 100, 304, 323
as cause of unstable psi performance, 29
emotional relationship of experimenter to subjects, 89-90
moderate vs. extreme mood states, 48-56
Tests of:
Primary Mental Abilities test, 161, 324
Psychology of ESP test performance, 268
"Psychometry"; *see* Token objects
Psychopharmacology, 167, 170-71
psychedelics, 168-69, 170-171, 349
Psychophysiology; *see* Physiological studies and ESP
Psychosomatic psi, 258
PURYEAR, HERBERT B., 32, 339

Qualitative research
evaluation of verbal free associations in GESP tests, 65-66
Quantum process in ESP testing, 99-108
Quarter-distribution analysis; *see under* Statistical methods
Questionnaires, use of in ESP tests, 161-62, 311-19
QUIMBY, PHINEAS, 168, 177

RAMSEYER, G. C., 160
Random behavior
in mice, 31-32, 71-72, 152, 162
Randomness tests, 104
Random number generator, 101-03
RAO, K. RAMAKRISHNA, 9, 11, 12, 16, 110, 172, 269, 334
Record sheet structure and position effects; *see under* Position effects
Recording devices, 103
REGAN, TIMOTHY, 178
Reincarnation, 286, 330, 356-57
correspondences in personality traits, 333-34
Reinforcement in psi tests; *see* Feedback
Repeated guessing method, 153, 160, 322
Replicability in parapsychology; *see under* Parapsychology
Research centers
Chester F. Carlson Research Laboratory, 273
Maimonides Hospital, 172-73
Response bias
primary responses, 209-10
secondary responses, 209-10
Review Meetings
Spring, 158-63
Summer, 320-28
Winter, 70-74
RHINE, J. B., 73-74, 110, 123, 209, 268, 273, 284, 286, 293
Parapsychology Today (review), 77-81
position effects in psi test results, 136-57
psi-missing re-examined, 1-38
RHINE, LOUISA E., 16, 17-18, 30, 70, 81, 110, 151, 187, 286, 327
case study review, 228-66
PK experiments with same and different targets, 213-27
RICHET, C., 137
RICHMOND, N., 189
ROBINSON, ANDREW, 162-63
ROCARD, Y., 175
ROGERS, DAVID PRICE, 27, 44, 48-49, 80, 221, 222, 223
ROLL, MURIEL, 364
ROLL, W. G., 84, 277, 330, 342-43, 359, 364
Rorschach test; *see under* Personality variables
RUSSELL, BERTRAND, 276
RYDEN, OLOF, 73
RYZL, MILAN, 169-70, 287, 297

Salience-ratio method; *see under* Statistical methods
Sampling techniques, 153, 160
SANDERS, M. C., 9
SANJAR, MANSOUR, 181
SARASWATI, MADHAVANANDA, 334
SCHERER, W. B., 153
SCHMEIDLER, GERTRUDE R., 8, 9, 13, 23, 28-29, 89, 181-82, 272-73, 294, 301, 319, 334-35, 338-39, 342
Extrasensory Perception (review), 267-72
"Parapsychology" in the *International Encyclopedia of the Social Sciences* (review), 84-86
Schmidt, Helmut, 32-33, 74, 327-28
clairvoyance tests with a machine, 300-06

precognition of a quantum process, 99-108
Science teachers as subjects, 307-10
Score frequency, 25-26
Secondary responses in ESP tests; *see under* Response bias
Selective telepathy; *see under* Theories of Psi
Sensitives; *see* Mediums
Sensory impressions in spontaneous cases; *see under* Spontaneous psi phenomena
SERVADIO, EMILIO, 168
Sex differences in ESP tests, 9, 72-73, 125, 127, 132-34, 161, 323-24, 354-55
Sheep–goat comparison, 9, 28-29, 294-95, 319, 324-25
Sleep, ESP tests during, 321-22; *see also* Dream studies
SMITH, G. A., 81
SOAL, S. G., 237, 293
Spontaneous psi phenomena, 16, 40, 283, 284, 327
absence of stimulus-response mechanism in, 235-37
as aid to research, 286
bearing on survival, 257-64, 327
case study review of, 228-66
classification of forms, 231-35
conviction of correctness of ESP responses to, 239-41, 246
as dreams, 232-33, 327
governed by personality characteristics, 234
hallucinatory, 233-34, 327
imagery in, 232-33, 245
as intuitions, 233, 327
and the nature of psi, 327
psychokinetic effects in, 187-88; *see also* PK
psychological processes in, 241-46
related to subject variance, 161-62, 311-19, 355-56
sensory impressions in, 233-35, 236, 244
survey of, 91
Stacking effect, 126
STANFORD, BIRGIT,
shifts in EEG alpha rhythm as related to calling patterns and ESP run-score variance, 39-47
Stanford, Rex G., 80, 272, 333, 345-46, 347-48, 353-54
shifts in EEG alpha rhythm as related to calling patterns and ESP run-score variance, 39-47
Static behavior
in mice, 72, 162
Statistical methods, 89; *see also* Score frequency, Variance
for assessment of verbal responses, 277
binomial method, 20-21
chi-square method, 117
chi-square test of goodness-of-fit, 26, 125, 131-32
for combining mixed probabilities, 277
critical ratio of the difference, 22-24
for evaluating polygraph records, 194-95
F-ratio method, 27
hit sequences analysis, 342
for measuring consistent missing, 109-24
for measuring psi-missing, 18-28
quarter-distribution analysis, 139, 144
salience-ratio method, 21-22, 136, 138, 140
STEELMAN, JULIE, 334-35
STEPANEK, PAVEL, 180-81, 276, 287, 344-45
STEVENSON, IAN, 91, 92, 273, 286, 330, 333-34, 356-57, 360
Stimulator-suppressor mechanism in ESP; *see under* Theories of psi
Stress, as related to psi-missing, 1, 2, 6, 11-14
Structure of Scientific Revolutions, The, 289
Stuart-Humphrey Interest Inventory, 178
Stuart Interest Inventory, 48, 51-52, 54-55
STUMP, JOHN P., 179, 359, 364
Subject-agent relationship, 59, 64, 158, 177-78, 181
hypnotically manipulated in psi tests, 337-38
Subject variables, 354-56
age, 323-24
artists vs. non-artists, 57-69
children vs. adults, 70, 136, 140-42
sex, 323-24, 354-55
Survival; *see* Postmortem survival
Systematic cognitive error, 16

Tachistoscope, ESP tests with, 6-7
Target selection error and significant scores, 334-35
Target variables
arrangement of, 127-28, 132
kinds of
art prints, 179
baccarat cards, 160
colored cards, 180-81
colored lights, 99, 101, 300-02, 339
emotionally-toned stimuli, 56-57, 60-62, 320-21, 325, 349-50
ESP booklets, 72-73, 323-24
multiple aspect, 181-82
numbers, 338, 350-51
photographs, 158-59, 177-78, 333, 363-64
pictures and figures, 161, 355
psychology test items, 160
roulette wheel compartments, 160
words, 127-28, 132, 206, 212
TART, CHARLES T., 168-69, 350-51, 356

Taylor Manifest Anxiety scale; *see under* Personality variables
Telepathy, in spontaneous cases, 237-39
Theories of Psi, 276
  the focusing effect, 180-81, 345
  the new personality model, 88
  psi-missing, 122-23
  selective telepathy, 87
  stimulator–suppressor mechanism, 87
Thoughtography, 275
THOULESS, ROBERT H., 158
  parapsychology during the last quarter of a century, 283-99
Time of day, effect of on ESP scores, 163, 326-27
TIMM, ULRICH, 16-17, 277, 278, 342
  mixing up of symbols in ESP card experiments (so-called consistent missing) as a possible cause for psi-missing, 109-24
Token objects, 92, 107
Training methods for psi induction, 169-70
Transient states, and run-score variance, 44
TROMP, SOLCO W., 182
TURNER, MALCOLM E., JR., 8, 90-91
TYMINSKI, WALTER V., 160, 322
TYRRELL, G. N. M., 33

U-curves in psi tests, 136, 137, 138; *see also* Position effects
ULLMAN, MONTAGUE, 172-73, 270, 362-63
  Psi and Altered States of Consciousness (review), 167-76
Unconscious judgmental error in psi-missing, 34-35

VAN DE CASTLE, R. L., 333
Variance of ESP scores, 206, 210, 296-97
  decline of, 48, 52
  related to analytic vs. global perception, 71
  run-score, as related to alpha rhythm, 39-47
  run-score, as related to mood, 48-56
  segment variance, 132-33
  subject, as related to spontaneous psi experiences, 161-62, 311-19, 355-56
Variance of PK scores
  in help-hinder condition, 213-20
  in pleasant vs. unpleasant moods, 220-27
  in sessions, 226
Variance-differential effect, 26-27, 132-33
VASSE, C., 189
VASSE, P., 189
VENZKE, JACQUELINE, 162
VERRIER, MARTHA, 159

WHITE, RHEA, 40
WILSON, C. W. M., 270
WOODRUFF, J. L., 13

ZORAB, G., 166